

ABSTRACT

A encoding apparatus decomposes an original image into  $M$  ( $M$  is an integer and  $M > 2$ ) uniform subbands, and encodes the decomposed signals by using an embedded type entropy encoding method. A decoding apparatus receives the coded data encoded by the encoding apparatus, extracts  $N$  signals from the coded data from a low frequency component side in decomposed signals, decodes the  $N$  signals by using an entropy decoding method, and synthesizes the  $N$  decoded signals to obtain a decoded image of a resolution of  $N/M$  times ( $M$  and  $N$  are integers, and  $1 \leq N \leq M$  and  $M > 2$ ) that of an original image.